

| Layer (type) | Output Shape | Param # |
|---------------------------|--------------|---------|
| input_1 (InputLayer) | (None, 1) | 0 |
| lambda_1 (Lambda) | (None, 512) | 0 |
| dense_1 (Dense) | (None, 512) | 262656 |
| dropout_1 (Dropout) | (None, 512) | 0 |
| dense_2 (Dense) | (None, 1) | 513 |
| Total params: 263,169 | | |
| Trainable params: 263,169 | | |
| Non-trainable params: 0 | | |

Train on 60000 samples, validate on 10000 samples

Epoch 1/10
60000/60000 [=====] - 120s 2ms/step - loss: 0.3634 - acc: 0.8385 - val_loss: 0.3422 - val_acc: 0.8502
Epoch 2/10
60000/60000 [=====] - 111s 2ms/step - loss: 0.3358 - acc: 0.8520 - val_loss: 0.3304 - val_acc: 0.8553
Epoch 3/10
60000/60000 [=====] - 109s 2ms/step - loss: 0.3237 - acc: 0.8577 - val_loss: 0.3240 - val_acc: 0.8590
Epoch 4/10
60000/60000 [=====] - 116s 2ms/step - loss: 0.3161 - acc: 0.8614 - val_loss: 0.3192 - val_acc: 0.8635
Epoch 5/10
60000/60000 [=====] - 116s 2ms/step - loss: 0.3072 - acc: 0.8683 - val_loss: 0.3167 - val_acc: 0.8654
Epoch 6/10
60000/60000 [=====] - 116s 2ms/step - loss: 0.3007 - acc: 0.8711 - val_loss: 0.3313 - val_acc: 0.8549
Epoch 7/10
60000/60000 [=====] - 116s 2ms/step - loss: 0.2939 - acc: 0.8746 - val_loss: 0.3167 - val_acc: 0.8622
Epoch 8/10
60000/60000 [=====] - 116s 2ms/step - loss: 0.2872 - acc: 0.8780 - val_loss: 0.3091 - val_acc: 0.8666
Epoch 9/10
60000/60000 [=====] - 110s 2ms/step - loss: 0.2810 - acc: 0.8813 - val_loss: 0.3178 - val_acc: 0.8613
Epoch 10/10
60000/60000 [=====] - 117s 2ms/step - loss: 0.2743 - acc: 0.8837 - val_loss: 0.2998 - val_acc: 0.8706
30000/30000 [=====] - 44s 1ms/step

Test score: 0.2969619936744372

Test accuracy: 0.8717

